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English Language Reporting of Environmental Protests in China [supplementary data]

McCulloch, Megan L.

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EXPLANATION OF DATA CODING

Data. The data set was collated using major news outlets, bilingual blogs, and references to protests found in scholarly works. Internet sourcing used "environment"; "protest(s)"; "China" and similar terms and phrases in search engines. In many cases, a reference to a protest was found in one location or article, and then the year, possible location, and major issue would be entered into the search engine to find more details about the incident.

Timeline. 2005–2014 was chosen, due to limitations of available data pre-2005. There was a single data point for 2004, but it was eventually left out due to lack of other data points for 2004. A 10-year data set was chosen for ease of analysis with 2005 chosen as the first year and closing on December 2014. A separate data set was started for 2015 (January – June). Nothing added after June as majority of writing was done in July and August. The format of "month-year" was chosen as too many articles or incidents had undefined or inexact start/ stop dates given. In many cases, a protest would be reported only once or another might mention how protestors had been out for several days. Other articles would refer to the month in which a protest occurred, but no further detail, or that a 'stroll' had taken place the previous week and the results were the topic of the article. When specific start dates were not listed, the default assumption was that the date published of the article was within the same month of the mentioned protest.

City. Location was also a difficult detail to decipher below the provincial level. In order to consolidate the locations of protests into figure 9, county, village, township, neighborhood or city names were consolidated to form a best guess as to the location of the protest. Part of the issue with detailed location was the shifting reporting standards in which village/township/ county/ city locations were not used on an obvious standard, so while two articles were very clearly discussing the same protest, one would refer to a village, and another would reference the township or county, but not the smaller town/ village. The rest of the analysis was conducted at the provincial level because the province was much easier to decipher than exact location. In addition, for the sake of

analysis, most Chinese statistics are kept on the provincial levels and any micro-level analysis would have yielded fewer results.

Numbers. Numbers were usually mentioned, but articles tended to be oblique (hundreds/ thousands), not specifics. In this case, the size was rounded to nearest tens place: thousands = 1,000, hundreds = 100. Often times articles did not always agree on the numbers in which case conservative averages were used to best estimate approximate size

Issue. The way an issue was decided was based on declared complaint from protestors. Often, these protests were against a factory or chemical plant. If protestors mentioned a specific complain, that was used, if not, it was based on types of pollution most commonly associated with the specified industry. As environmental research is oft broken into air/water/soil, so too "overarching concerns" were air/water/soil pollutions. In the event that more than one type of pollution was mentioned, it was counted as a protest for both. Radiation as a concern was added later when it became clear that it was the only outlier, but did not fit under air pollution, the next closer.

Results. Results were included in the below table, but only cursory discussed and generalized in Chapter IV. The return for attempting to codify results in a qualitative matter was later determined to be outside the scope of this paper. Another reason it was dismissed was due to large time gaps between the cessation of protest and government action or inability to discover from within available news sources the actual long-term outcome. In many cases, the protests were either single flash with no discernable media follow up, or in others, they were dispersed and follow-up may not have been possible. In others, temporary shutdowns were achieved but without access to Chinese sources on the ground, there was no way to verify the factory remained shut or if it had restarted.

Date	City	Province	Numbers	Issue	Results
Apr-05	Huaxi, Dongyang City	Zhejiang[i]	20,000+	Zhuxi Industrial Park: air/water/soil	5 villages jailed; Jan 2006 last factory (13 total) shutdown
Apr-05	Guideng	Hunan[ii]	600	Vanadium refining sediment: air	Frustrated villagers raid/ destroyed factories
May-05	Xiaochaoshui	Hunan[iii]	1,000	Qingshui river fouling from molybdenum mining operations: water	About 200 mining sites destroyed
Jul-05	Jianxia	Zhejiang[iv]	600	Battery factory: soil	1,000 workers taken hostage; released after a managers promise investigation into pollution
Jul-05	Xinchang	Zhejiang[v]	15,000	Jingxing Pharmaceutical Chemical factory explosion: soil pollution	Suppressed by force (3,000 paramilitary police bussed in)
Aug-05	Meishan	Zhejiang[vi]	<100	Tian Neng Battery Factory – lead poisoning: soil	Factory burned
Apr-06	Quanzhou	Fujian[vii]	200	Sewage Plant: air & water pollution	
Jun-07	Xiamen	Fujian[viii]	10,000	Started as SMS/ Internet campaign against Tenglong Aromatic PX plant[ix]	"100 members of prominent… National Committee of the Chinese People's Political Consultative Conference also called for the plant's relocation" [x]; Construction halted/ factory relocated

Nov-07	Minhang District	Shanghai[xi]	1,000+	High power line EM radiation	Para-military police deployed; construction continued
Jan 08		Shanghai[xii]	100s	Maglav train/ fear of radiation	
Mar-08	Gulei Peninsula	Fujian[xiii]	10,000	PX plant initially planned for Xiamen	Dozen injured/ 20 arrested; relocated outside Zhangzhou, 100 km SW Xiamen
May-08	Chengdu	Sichuan[xiv]	400-500	Ethylene plant and oil refinery: air	
Aug-08	Changying	Beijing[xv]	Hundreds	Refuse dump: air pollution	Measures to reduce smell implemented
Jan-09	Zhangzhou	Fujian[xvi]	Small, sporadic	Tenglong PX plant: air	Sporadic, no momentum; 6% construction budget for 'environmental protection'; PR push by gov't
Jul-09	Nansha	Guangdong[xvii]	1,000+	Oil refinery and petrochemical plant by Sinopec and Kuwait Petroleum (initial deal struck 2007): air	14 local officials called for 'rethink'[xviii]; relocated to Zhanjiang (construction ongoing, 2014)[xix]
Aug-09	Shuangqiao	Hunan[xx]	1,000	Death of 2 villagers; Xianghe chemical factory- heavy metal pollution: water	2 Environmental officials suspended; Plant boss arrested; Plant production halted, pending further investigation
Aug-09	Quanzhou	Fujian[xxi]	200	Faulty sewage infrastructure: water	Died out
Aug-09	Shenzhen	Guangdong[xxii]	Small sit in	Longgang Waste Incineration	

Aug-09	Chongqing	Shaanxi[xxiii]	Hundreds?	Dongling Lead and Zinc Smelting company: Lead poisoning/ soil pollution	Factory shut-down; 615/731 Children tested positive lead poisoning; planned to reopen in 2010; 11 public health officials disciplined
Aug-09	Wugang	Hunan[xxiv]	1,000	Wugan Magnesium smelting plant: soil	2 officials arrested; "no official approval"/ plant shutdown
Sep-09	Fengwei	Fujian[xxv]	10,000+	Pollution from refinery: air	"Many deaths from cancer of the stomach and esophagus in recent years"; 2 thousand police, tear gas
Sep 09	Jiaoyang	Fujian[xxvi]	<100	Soil: Lead poisoning	Huaqing battery factory suspended production; High levels of lead found in children's blood
Nov-09	Panyu, Guangzhou	Guangdong [xxvii]	1,000+	Waste Incinerator: Air	Closed/ relocated; recycling program
Jul-10	Jingxi	Guangxi[xxviii]	1,000	Aluminium plant: soil	
Apr-11	Wuxi	Jiangsu[xxix]	1,000+	Waste Incineration: air	
Aug-11	Dalien	Liaoning[xxx]	12,000+	Fujia Chemical Factory Sea Wall breached by Typhoon; PX	Government promised to shutdown/ relocate factory… In 2012, still expanding

Sep-11	Haining	Zhejiang[xxxi]	500	Zhejiang Jinko Solar Co Ltd chemicals used in solar panel manufacturing: water pollution (dead fish)	Ordered to halt product lines emitting toxic gases; approx. 20 people arrested; resumed in October after "corrective action" taken; paid $74,000 fine
Dec-11	Haimen	Guangdong [xxxii]	30,000	Coal-fired power plant construction	Construction cancelled
Apr-12		Tianjin[xxxiii]	1,000s	Sino-Saudi px plant (SINO-SABIC)	
Jul-12	Qidong	Jiangsu[xxxiv]	1,000	Wastewater discharge: water[xxxv]	Pipeline expansion cancelled and factory remains open[xxxvi]
Oct-12	Yinggehai	Hainan[xxxvii]	1,000+	Coal-fired power plant: air	50 arrested; 100 injured; town placed under house arrest[xxxviii]
Jun-12	Songjiang	Shanghai[xxxix]	Hundreds	Waste Incineration construction: air	
Jul-12	Shifang	Sichuan[xl]	10,000	Copper molybdenum processing plant	Construction paused after violent, bloody protests; 13 injured;[xli] case study for government on "what went wrong"[xlii]
Oct-12	Ningbo	Zhejiang[xliii]	4,000-5,000	Zhenhai district PX plant; air pollution; gov't promises of subsidy	Halted planned construction after violent weekend clash with police
Nov-12	Wenzhou	Zhejiang[xliv]	1,000+	High-voltage power lines	
May-13	Chengdu	Sichuan[xlv]	100s	PX	Pre-emptively squashed by officials

May-13	Kunming	Yunan[xlvi]	200-2000	PX	
May-13	Songjiang	Shanghai[xlvii]	100s	Lithium Battery factory: soil	Construction cancelled
Jul-13	Jiangmen	Guangdong [xlviii]	<1,000	Uranium processing plant: soil	Written pledge to scrap Villagers angry over loss of compensation after deal falls through[xlix]
Jul-13	Huadu	Guangdong[l]	100+	Waste Incinerator	Dispersed peacefully
Aug-13	Gangkou	Jiangxi[li]	100+	Lead poisoning from lead recycling plant: soil	Small, violent riot; protestors eventually dispersed
Apr-14	Maoming	Guangdong[lii]	1,000+	PX	18 detained
Apr-14	Guangzhou	Guangdong[liii]	100s	PX/ Maoming support	
Sep-14	Bolou County	Guangdong[liv]	3,000-4,000	Waste Incineration	Police hold 21[lv]; plan to continue construction
May-14	Hangzhou	Zhejiang[lvi]	Hundreds?	Waste Incinerator, construction started 2012	Suspended construction pending 'public approval'; dozens injured; 60+ detained
Sep-14	Chongkuang	Zhejiang[lvii]	30-40	Planned chemical plant: soil	Protestors removed
Sep-14	Puyang, Dujiangyan	Sichuan[lviii]	100+	Waste water treatment plant run-off (want relocation of plant)	Police brutality; Effluent from the plant is now in line with national limits,"

Protests Data Points (Jan-Jun 2015)

Jan-15	Wuhan	Hubei			
Apr-15	Luoding	Guangdong[lix]	1,000s	Waste Incinerator - Air	Local gov't revoke permit
Apr-15	Daying Village	Guangdong[lx]		Mingfeng factory/ Iron foundry: air/ water	Minority area/ 10 detained
Apr-15	Heyuan	Guangdong[lxi]	10,000	Coal-fired power plant – Air	
2015	Zhangzhou	Fujian[lxii]		Explosion at Gulei PX plant (2nd in 2 yrs) - Air	15 injured
Apr-15	Neijing City	Sichuan[lxiii]	1,000s	Foul smelling air/ toxic gas from coking plant	Temporary shut-down for investigation
Apr-15	Daqintala	Inner Mongolia[lxiv]	1,000	Naimen Chemical Refinery Zone: Water/ Air pollution	2,000 riot police deployed; 170 injured
May-15	Gegu	Tianjin[lxv]	1,000+	Rongcheng Iron and Steel Factory: air	
Jun-15	Jinshan	Shanghai[lxvi]	10,000	PX; gov't mistrust - Air	Heavy police presence/ protestors moved from outside gov't offices[lxvii]; lack of social media commentary[lxviii]
Jul-15	Langfang	Hebei[lxix]	2,000	Waste Incinerator (told power plant, not what type) - Air	

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